
Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: Fri Sep 28 11:38:27 EDT 2007

Validated By CRFValidator v 1.0.3

Application No: 10562561 Version No: 3.0

Input Set:

Output Set:

Started: 2007-09-17 15:47:30.292

Finished: 2007-09-17 15:47:43.911

Elapsed: 0 hr(s) 0 min(s) 13 sec(s) 619 ms

Total Warnings: 1904

Total Errors: 0

No. of SeqIDs Defined: 1905

Actual SeqID Count: 1905

Error code		Error Descript	ion								
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(1)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(2)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(3)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(4)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(5)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(6)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(7)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(8)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(9)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(10)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(11)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(12)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(13)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(14)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(15)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(16)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(17)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(18)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(19)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(20)

Input Set:

Output Set:

Started: 2007-09-17 15:47:30.292 **Finished:** 2007-09-17 15:47:43.911

Elapsed: 0 hr(s) 0 min(s) 13 sec(s) 619 ms

Total Warnings: 1904

Total Errors: 0

No. of SeqIDs Defined: 1905

Actual SeqID Count: 1905

Error code Error Description

This error has occured more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Sirna Therapeutics, Inc. McSwiggen, James Beigelman, Leonid <120> RNA Interference Mediated Treatment of Alzheimer's Disease Using Short Interfering Nucleic Acid (siNA) <130> 400/166 (MBHB02-728-L) <140> 10562561 <141> 2006-06-19 <150> PCT/US04/20516 <151> 2004-06-25 <150> US 10/607933 <151> 2003-06-27 <150> US 09/930423 <151> 2001-08-15 <150> PCT/US03/04710 <151> 2003-02-18 <150> US 10/205309 <151> 2002-07-25 <150> PCT/US04/16390 <151> 2004-05-24 <150> US 10/826966 <151> 2004-04-16 <150> US 10/757803 <151> 2004-01-14 <150> US 10/720448 <151> 2003-11-24 <150> US 10/693059 <151> 2003-10-23 <150> US 10/444853 <151> 2003-05-23 <150> PCT/US03/05346 <151> 2003-02-20 <150> PCT/US03/05028 <151> 2003-02-20 <150> US 60/385580

<151> 2002-02-20

<150> US 60/363124

```
<151> 2002-03-11
<150> US 60/386782
<151> 2002-06-06
<150> US 60/406784
<151> 2002-08-29
<150> US 60/408378
<151> 2002-09-05
<150> US 60/409293
<151> 2002-09-09
<150> US 60/440129
<151> 2003-01-15
<150> PCT/US04/13456
<151> 2004-04-30
<150> US 10/780447
<151> 2004-02-13
<150> US 10/427160
<151> 2004-04-30
<150> PCT/US02/15876
<151> 2002-05-17
<150> US 60/362016
<151> 2002-03-06
<150> US 60/292217
<151> 2001-05-18
<150> US 10/727780
<151> 2003-12-03
<150> US 60/543480
<151> 2004-02-10
<160> 1905
<170> PatentIn version 3.3
<210> 1
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 1
```

uuuccucggc agcgguagg

19

```
<210> 2
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 2
                                                                    19
gcgagagcac gcggaggag
<210> 3
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 3
gcgugcgcgg gggccccgg
                                                                    19
<210> 4
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 4
                                                                    19
ggagacggcg gcgguggcg
<210> 5
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 5
                                                                    19
ggcgcgggca gagcaagga
<210> 6
<211> 19
<212> RNA
```

<213> Artificial Sequence

```
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 6
acgcggcgga ucccacucg
                                                                     19
<210> 7
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 7
gcacagcagc gcacucggu
                                                                     19
<210> 8
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 8
                                                                     19
ugccccgcgc agggucgcg
<210> 9
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 9
gaugeugeee gguuuggea
                                                                     19
<210> 10
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
```

acugcuccug cuggccgcc	19
<210> 11	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<pre><223> Description of Artificial Sequence: Target Sequence/siNA .</pre>	
sense region	
<400> 11	
cuggacggcu cgggcgcug	19
euggaeggeu egggegeug	17
<210> 12	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
*	
<220>	
<223> Description of Artificial Sequence: Target Sequence/siNA	
sense region	
<400> 12	
ggagguaccc acugauggu	19
<210> 13	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Target Sequence/siNA	
sense region	
<400> 13	
uaaugcuggc cugcuggcu	19
.010. 14	
<210> 14	
<211> 19	
<212> RNA	
<213> Artificial Sequence	
<220>	
<pre><220> <223> Description of Artificial Sequence: Target Sequence/siNA</pre>	
sense region	
Sense regron	
<400> 14	
ugaaccccag auugccaug	19

<400> 10

```
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 15
guucuguggc agacugaac
                                                                     19
<210> 16
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 16
caugcacaug aauguccag
                                                                     19
<210> 17
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 17
gaaugggaag ugggauuca
                                                                     19
<210> 18
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 18
                                                                     19
agauccauca gggaccaaa
<210> 19
<211> 19
<212> RNA
<213> Artificial Sequence
```

	Description of Artificial region	Sequence:	Target	Sequence/siNA	
<400>	19				
aaccuç	rcauu gauaccaag				19
<210>	20				
<211>					
<212>					
<213>	Artificial Sequence				
<220>					
<223>	Description of Artificial	Sequence:	Target	Sequence/siNA	
sense	region				
<400>	20				
ggaagg	cauc cugcaguau				19
<210>	21				
<211>	19				
<212>	RNA				
<213>	Artificial Sequence				
<220					
<220>	Description of Artificial	Godinando.	Target	Soguenge /giNA	
	region	sequence.	rarget	sequence/sinA	
sense	region				
<400>	21				
uugcca	agaa gucuacccu				19
<210>	22				
<211>	19				
<212>	RNA				
<213>	Artificial Sequence				
<220>					
<223>	Description of Artificial	Sequence:	Target	Sequence/siNA	
sense	region				
<400>	22				
	igcag aucaccaau				19
,					
-010:	22				
<210>	23				
<211> <212>	19 RNA				
	Artificial Sequence				
-219,					
<220>					
<223>	Description of Artificial	Sequence:	Target	Sequence/siNA	
sense	region				
<400>	23				

ugugguagaa gccaaccaa

19

```
<210> 24
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 24
                                                                     19
accagugacc auccagaac
<210> 25
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 25
cuggugcaag cggggccgc
                                                                     19
<210> 26
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 26
caagcagugc aagacccau
                                                                     19
<210> 27
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 27
uccccacuuu gugauuccc
                                                                     19
<210> 28
```

<211> 19 <212> RNA

```
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 28
                                                                     19
cuaccgcugc uuaguuggu
<210> 29
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 29
ugaguuugua agugaugcc
                                                                     19
<210> 30
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 30
                                                                     19
ccuucucguu ccugacaag
<210> 31
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 31
gugcaaauuc uuacaccag
                                                                     19
<210> 32
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
```

<400>	32	
ggagag	gaug gauguuugc	19
<210>	33	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Target Sequence/siNA	
sense	region	
<400>	33	
cgaaac	ucau cuucacugg	19
<210>	34	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Target Sequence/siNA	
sense	region	
<400>	34	
qcacac	cguc gccaaagag	19
-		
<210>	35	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Target Sequence/siNA	
sense	region	
<400>	35	
gacaug	cagu gagaagagu	19
, ,		
<210>	36	
<211>	19	
<212>		
	Artificial Sequence	
-	•	
<220>		
<223>	Description of Artificial Sequence: Target Sequence/siNA	
	region	
<100>	36	

19

uaccaacuug caugacuac

```
<210> 37
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 37
                                                                     19
cggcauguug cugcccugc
<210> 38
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 38
                                                                     19
cggaauugac aaguuccga
<210> 39
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 39
                                                                     19
agggguagag uuugugugu
<210> 40
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 40
                                                                     19
uugcccacug gcugaagaa
<210> 41
<211> 19
<212> RNA
```

<213> Artificial Sequence

```
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 41
                                                                     19
aagugacaau guggauucu
<210> 42
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 42
                                                                     19
ugcugaugcg gaggaggau
<210> 43
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 43
ugacucggau gucuggugg
                                                                     19
<210> 44
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 44
                                                                     19
gggcggagca gacacagac
<210> 45
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
```

<400> 45

19

```
<210> 46
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 46
                                                                     19
agacaaagua guagaagua
<210> 47
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 47
                                                                     19
agcagaggag gaagaagug
<210> 48
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 48
                                                                     19
ggcugaggug gaagaagaa
<210> 49
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 49
agaagccgau gaugacgag
                                                                     19
```

<210> 50 <211> 19

```
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 50
ggacgaugag gauggugau
                                                                     19
<210> 51
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 51
ugagguagag gaagaggcu
                                                                     19
<210> 52
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 52
ugaggaaccc uacgaagaa
                                                                     19
<210> 53
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 53
                                                                     19
agccacagag agaaccacc
<210> 54
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
```

sense	region	
<400>	54	
cagcau	ugcc accaccacc	19
<210>	55	
<211>	19	
<212>		
<213>	Artificial Sequence	
.000		
<220> <223>	Description of Autificial Community Toward Community	
	Description of Artificial Sequence: Target Sequence/siNA region	
selise	Teg10II	
<400>	55	
	cacc acagagucu	19
<210>	56	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Target Sequence/siNA	
sense	region	
<400>	56	
ugugga	aagag gugguucga	19
<210>	57	
<211>	19	
<212>	RNA	
	Artificial Sequence	
	•	
<220>		
<223>	Description of Artificial Sequence: Target Sequence/siNA	
sense	region	
<400>	57	
agaggu	ugugc ucugaacaa	19
<210>	58	
<211>	19	
<212>		
<∠⊥3>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Target Sequence/siNA	
	region	
Jense		
<100>	50	

19

agccgagacg gggccgugc

```
<210> 59
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 59
                                                                     19
ccgagcaaug aucucccgc
<210> 60
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 60
cugguacuuu gaugugacu
                                                                     19
<210> 61
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 61
                                                                     19
ugaagggaag ugugcccca
<210> 62
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 62
                                                                     19
auucuuuuac ggcggaugu
<210> 63
<211> 19
<212> RNA
```

<213> Artificial Sequence

```
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 63
uggcggcaac cggaacaac
                                                                     19
<210> 64
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 64
cuuugacaca gaagaguac
                                                                     19
<210> 65
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 65
                                                                     19
cugcauggcc guguguggc
<210> 66
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
<400> 66
cagcgccaug ucccaaagu
                                                                     19
<210> 67
<211> 19
<212> RNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region
```

<400>	67	
uuuacu	caag acuacccag	19
<210>	68	
<211>	19	
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Target Sequence/siNA	
sense	region	
<400>	68	
ggaacc	ucuu gcccgagau	19
<210>	69	
<211>	19	
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Target Sequence/siNA	
sense	region	
<400>	69	
uccugu	uaaa cuuccuaca	19
<210>	70	
<211>	19	
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Target Sequence/siNA	
sense	region	
<400>	70	
aacagc	agec aguaceceu	19
<210>	71	
<211>	19	
<212>	RNA	
<213>	Artificial Sequence	
0.0.5		
<220>		
<223>	Description of Artificial Sequence: Target Sequence/siNA	
sense	region	
. 4 ~ -		
<400>	71	<i>a</i> -
ugauge	cguu gacaaguau	19

```
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA
sense region

<400> 72
ucucgagac
```